

VARIANCE / FIELD CHANGE NOTICE (FCN)	V 99-008
WBS NO.: PROJECT/DOCUMENT 98SC000001 WPRAP Sampling and Analysis Plan for Waste Pit Materials, Rev 0	Page <u>1</u> of <u>1</u>
PROJECT TITLE: Waste Pits Remedial Action Project	Date: <u>10/19/99</u>
VARIANCE / FIELD CHANGE NOTICE (Include justification):	

Add footnote 12 to the U234 analyte in Table 2.5 "Radiochemical Method Performance- Blended Waste" corresponding to ASL E:

-2674

12. If the mass ratio of U-235 to U-238 ≤ 0.86 , the U-234 concentration will be assigned the U-238 concentration. If the U-235 to U-238 mass ratio exceeds 0.86, the U-234 value will be determined by ICP-MS, alpha spec, or other appropriate quantification method.

Justification

Because of a combination of low gamma abundance, low energy photopeak, and Pb-214 interference, the U-234 activity cannot be determined analytically by the current gamma spectroscopy system. The proposed approach provides conservative values for the reported U-234 concentration but does not impact the LSA-I or WAC determination.

REQUESTED BY: Doug Draper, IT Corp

DATE: 10/19/99

CHECK IF REQD	VARIANCE/ FCN APPROVAL	DATE	CHECK IF REQD	VARIANCE/ FCN APPROVAL	DATE
X	IT Lab Manager <i>Mark A. Barnett</i>	10-20-99	X	FDF RDQ <i>[Signature]</i>	10/28/99
X	IT QA Manager <i>[Signature]</i>	10-20-99	X	FDF WPRAP Environmental Compliance <i>[Signature]</i>	10-21-99
X	FDF WPRAP Sampling/ Analysis Coordinator <i>[Signature]</i>	10-21-99	X	FDF WAO or <i>Vicky L. Zimmerman</i>	10/28/99
X	FDF WPRAP QA Manager <i>[Signature]</i>	10-22-99	X	FDF Waste Certification <i>[Signature]</i>	

VARIANCE/FCN APPROVED ☒ YES ☐ NO

REVISION REQUIRED: ☐ YES ☒ NO

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10/24/99

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